**Objectives**

Upon completion of this activity, you will be able to:

* Define analogy
* Interpret basic analogies to identify the common roles of related objects
* Provide an example of an inferences based on an analogy

**Causal Principles**

In this course we will use the casual principles underlying scientific processes or phenomena in order to learn about global change. Each activity will focus on a few of the causal principles.

Another tool we will use to learn about global change will be **analogies**. The analogies will help you will compare different things to see what is similar and different about them, helping you have a better understanding of the two objects or processes being compared. Reasoning with analogies is something we all do everyday, but in this course we will focus on how analogies are used to learn about the principles underlying climate change

**PART 1: Background Notes**

In this section you should take any notes that seem important during the introductory powerpoint. The powerpoint will review the main scientific ideas in the activity.

**Part 1: Class work**

In class we will go through an example of how we will be using analogies to learn about global change. Fill in the table as we go through class.

Table A. Baseball

|  |  |
| --- | --- |
| **Baseball** | **Role** |
| Pitcher |  |
| Ball |  |
| Home plate |  |
| Umpire |  |
| Bat |  |
| Park |  |

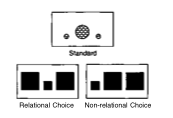
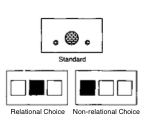
Table B. Hockey

|  |  |
| --- | --- |
| **Hockey** | **Role** |
| Goal |  |
| Rink |  |
| Goalie |  |
| Hockey Stick |  |
| Referee |  |
| Puck |  |

Table C.

|  |  |  |
| --- | --- | --- |
| **Baseball** | **Hockey** | **Common Role** |
| Ball | Puck |  |
| Bat | Hockey Stick |  |
| Home plate | Goal |  |
| Umpire | Referee |  |
| Park | Rink |  |
| Pitcher | Goalie |  |

**Part 2: Group Work**

1. Work in your groups to create an analogy. Your analogy can be as simple as the first example: bodyguard : celebrity :: force-field : spaceship. Write the analogy below and describe the common role of each object.
2. For the visual analogies below – describe why the picture on the left is the correct match for the Standard.
   1. What relationship between the objects in the two matching diagrams (Standard and Relational Choice) makes the analogy correct?
   2. What relationship between the objects in the two matching diagrams (Standard and Relational Choice) makes the analogy correct?
3. Use the following analogy to make an inference:
   1. Walcorp sold its member company, Acme Tires.
   2. Martha divorced George.

Inference:

Walcorp then acquired a more lucrative member company.

Likewise, Martha….

**Part 3: Homework**

If you complete the group work, you may work on the homework **on your own.** This means your answers should be generally unique from other students’ answers. **Submit your homework using ANGEL**.